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APPLICATION NO	. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/634,400	08/05/2003	Mark Stephen Edwards	AD6606 US DIV 2	7028	
23906	7590 10/26/20	5	EXAMINER		
	ONT DE NEMOURS	AFTERGU	AFTERGUT, JEFF H		
	ATENT RECORDS CE MILL PLAZA 25/1128	NIER	ART UNIT	PAPER NUMBER	
4417 LAN	CASTER PIKE	1733			
WILMING	TON, DE 19805	DATE MAILED: 10/26/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)				
Office Action Summary				EDWARDS ET AL.				
		10/634,40 Examiner		Art Unit				
•								
The MAII IN	IG DATE of this communicati	Jeff H. Afte	<u> </u>	1733 orrespondence addre	ess -			
Period for Reply		<u></u>						
WHICHEVER IS L - Extensions of time may after SIX (6) MONTHS - If NO period for reply is - Failure to reply within the Any reply received by the	TATUTORY PERIOD FOR ONGER, FROM THE MAILI be available under the provisions of 37 from the mailing date of this communical specified above, the maximum statuton the set or extended period for reply will, the Office later than three months after the ustment. See 37 CFR 1.704(b).	ING DATE OF TH CFR 1.136(a). In no eve tion. y period will apply and will by statute, cause the appli	IS COMMUNICATION nt, however, may a reply be timed the spire SIX (6) MONTHS from cation to become ABANDONEI	I. ely filed the mailing date of this comm O (35 U.S.C. § 133).				
Status								
1) Responsive	to communication(s) filed or	n .						
2a)☐ This action i	_	This action is no	on-final.					
3) Since this a	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in ac	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claim	S	•						
4)⊠ Claim(s) 1-5	is/are pending in the application	ation.						
, , , , , , , , , , , , , , , , , , , ,	4a) Of the above claim(s) <u>3-5</u> is/are withdrawn from consideration.							
	is/are allowed.							
6)⊠ Claim(s) <u>1 a</u>								
7) Claim(s)	is/are objected to.		•					
8) Claim(s)	are subject to restriction	and/or election re	quirement.					
Application Papers								
9)☐ The specifica	ation is objected to by the Ex	kaminer.	•					
,	(s) filed on is/are: a)[objected to by the E	Examiner.				
Applicant mag	not request that any objection	to the drawing(s) b	e held in abeyance. See	37 CFR 1.85(a).				
Replacement	drawing sheet(s) including the	correction is require	ed if the drawing(s) is obj	ected to. See 37 CFR	1.121(d).			
11)☐ The oath or o	declaration is objected to by	the Examiner. No	te the attached Office	Action or form PTO-	152.			
Priority under 35 U.S	.C. § 119		•					
,	ment is made of a claim for f Some * c) None of:	oreign priority und	ler 35 U.S.C. § 119(a)	-(d) or (f).				
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See the attack	ned detailed Office action for	r a list of the certif	led copies not receive	u.				
Attachment(s)								
1) Notice of References		240	4) Interview Summary Paper No(s)/Mail Da					
	n's Patent Drawing Review (PTO-9 e Statement(s) (PTO-1449 or PTO e		5) Notice of Informal P		2)			

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Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of the claimed invention: The species of the bristle subassembly formed with a base string attached to a filament wrap thereto (claims 1 and 2), the species of a bristle subassembly with the filament wrap attached to itself without the addition of additional material or solvent (heat welded, claim 3), the species of the bristle subassembly made with the addition of a melted polymeric bead to attach the wrap filaments together (claim 4), and the species of the bristle subassembly wherein an adhesive or solvent was applied to the filament wrap to adhere the filaments together (claim 5).

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

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Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 2. During a telephone conversation with Tamera Fair on 10-21-05 a provisional election was made without traverse to prosecute the invention of the species of the attachment of a base string to a filament wrap, claims 1 and 2. Affirmation of this election must be made by applicant in replying to this Office action. Claims 3-5 have been withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.
- 3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over either one of Edwards et al or Mokhtar et al.

The claims are written in product by process form. As such, the claims are directed to the bristle subassembly and nothing more. If the processing results in a materially different end product, which applicant could evidence with a showing, then the specific processing would have been understood to have resulted in a materially different end product and prima facie obviousness must be based upon the specific processing to show that the specific product was known. However, no such specific evidence of the same exists in this application.

The references to Edwards et al and Mokhtar both suggested that it was known at the time the invention was made to attach a base string to a wrap of filaments on a mandrel or form wherein the same were joined together with an ultrasonic horn. Note that in Mokhtar, the base string is identified as 32 and the horn for the ultrasonic is identified as 42. The system included a means for cutting the looped material after the bonding operation in order to form a base string with a plurality of filaments attached thereto. This is essentially the same product recited in the claims. It is unclear whether the inclusion of multiple sides for the mandrel or the use of multiple base strings further imparts anything materially different to the finished assembly. The reference to Edwards is much the same as the assembly of Mokhtar in that it included the use of a string 32 as well as an ultrasonic means 42 to attach the string to the exterior of the wraps which were disposed about the form. The reference again clearly suggested that the wrap would have been severed after assembly and thus one would have been left with a

plurality of polymeric filaments attached to a base string in the same manner as defined in the claims. Additionally both references suggested that the yarn which made up the wrappings were polymeric yarn. The references both suggested that the assemblies so formed were used in the manufacture of carpets as tufted products, however there is no reason to believe that these products could not be employed as a bristle subassembly (note that the tuft strings produced in the references were carpet subassemblies). As there is no specific structure defined in the claims which made the assemblies anything different from that which was defined by either one of Mokhtar or Edwards, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the techniques of either one of Edwards et al or Mokhtar et al to make a bristle subassembly which had a base string attached to a plurality of polymeric filaments via an ultrasonic bonding operation.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeff H. Aftergut whose telephone number is 571-272-1212. The examiner can normally be reached on Monday-Friday 7:15-345 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

. Attergut

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JHA

October 24, 2005